

FIG. 1

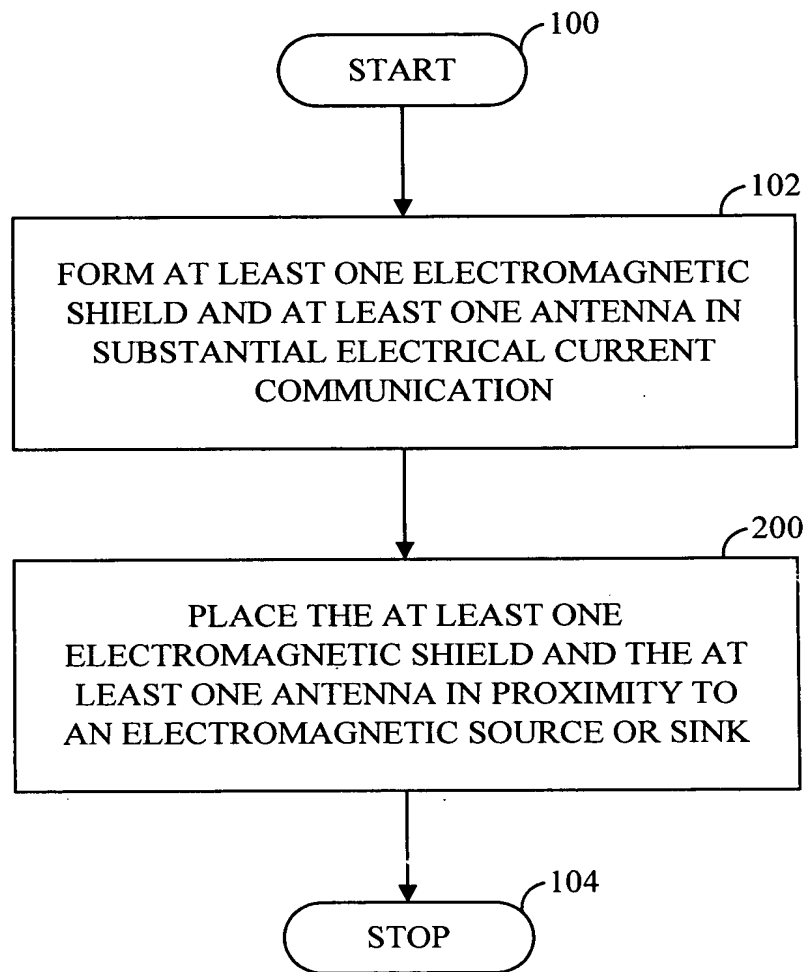


FIG. 2

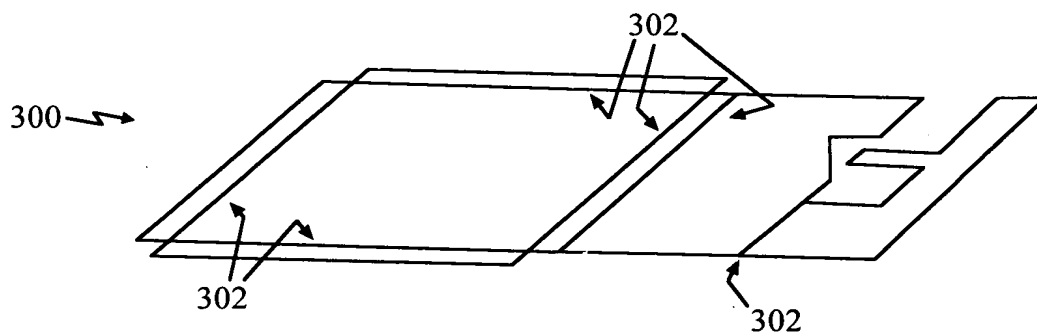


FIG. 3A

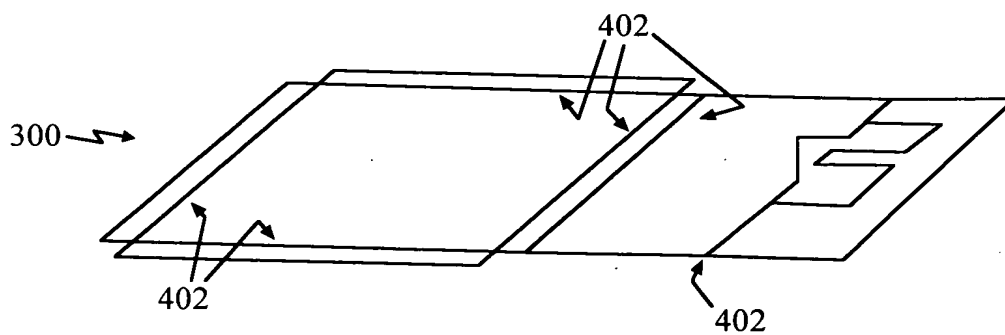


FIG. 4A

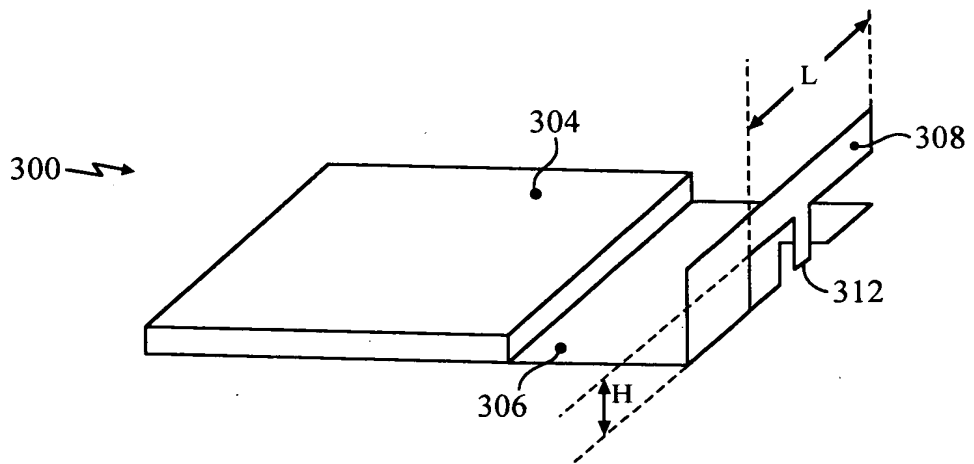


FIG. 3B

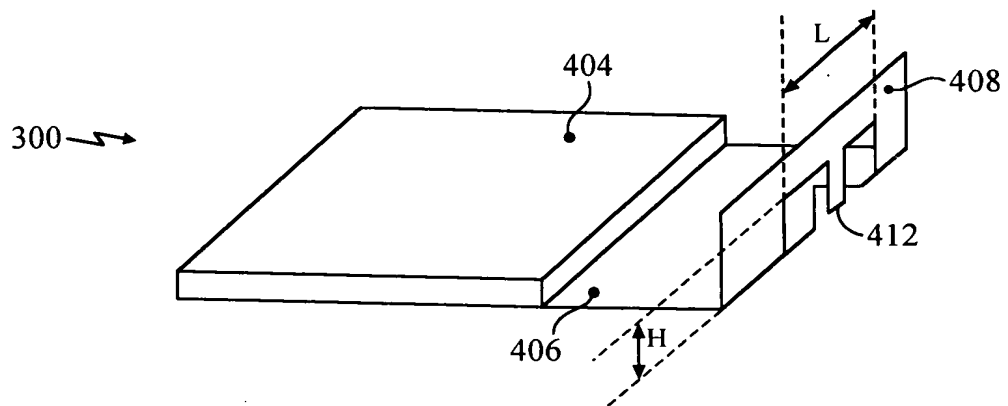


FIG. 4B

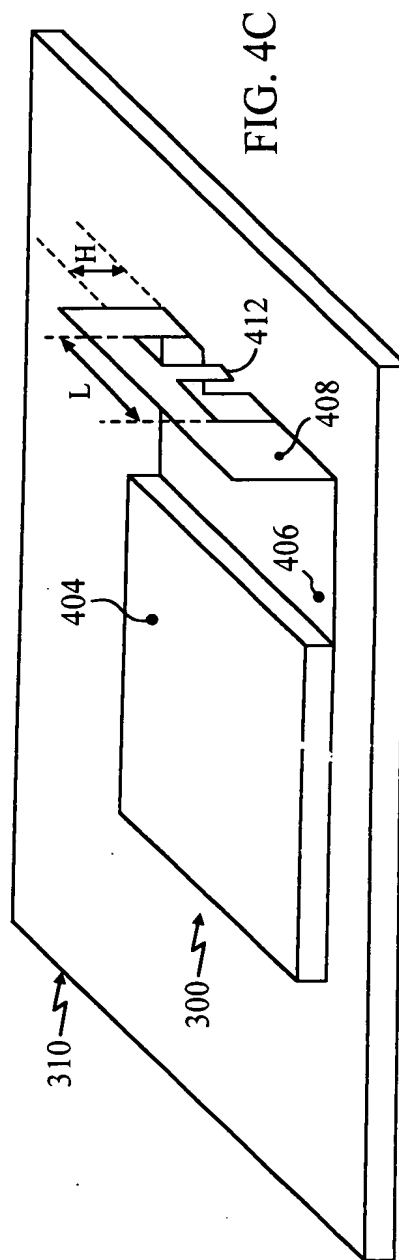
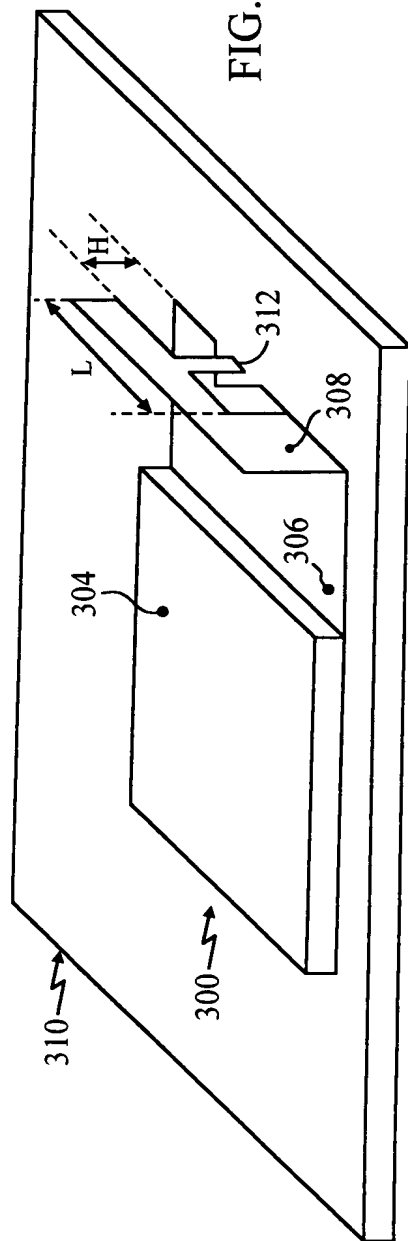


FIG. 5A

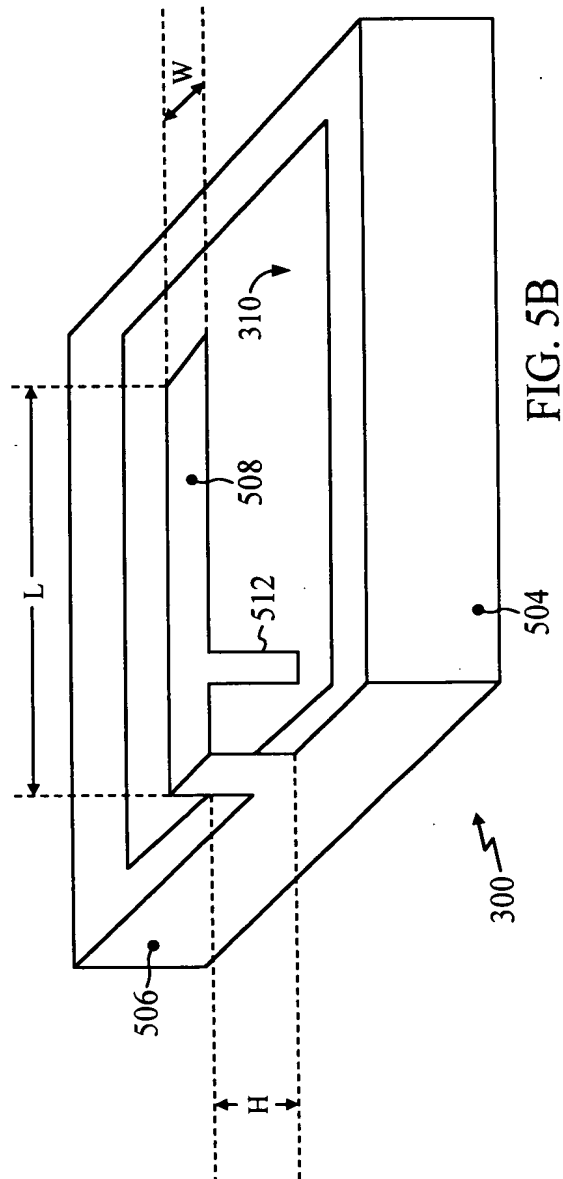
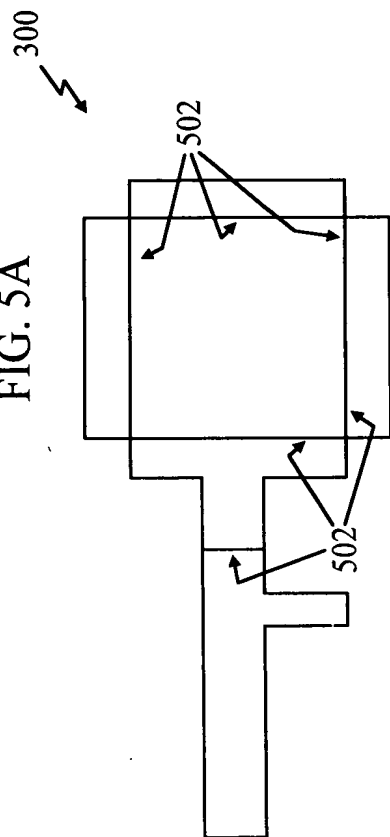


FIG. 5B

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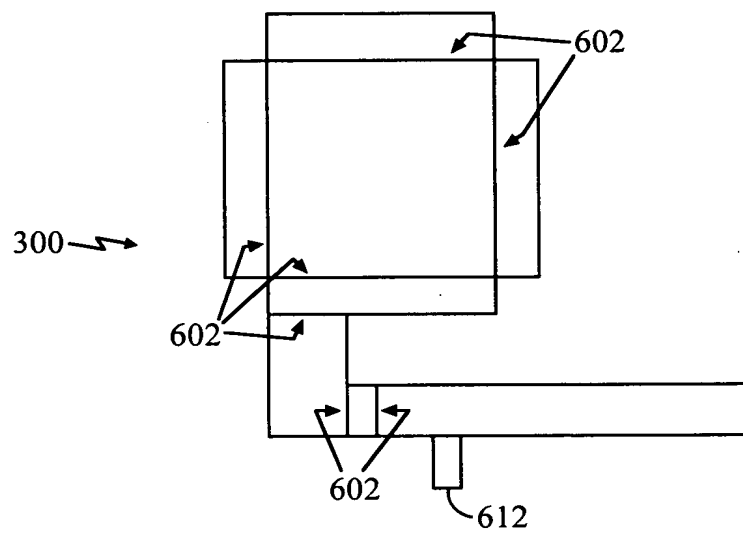


FIG. 6A

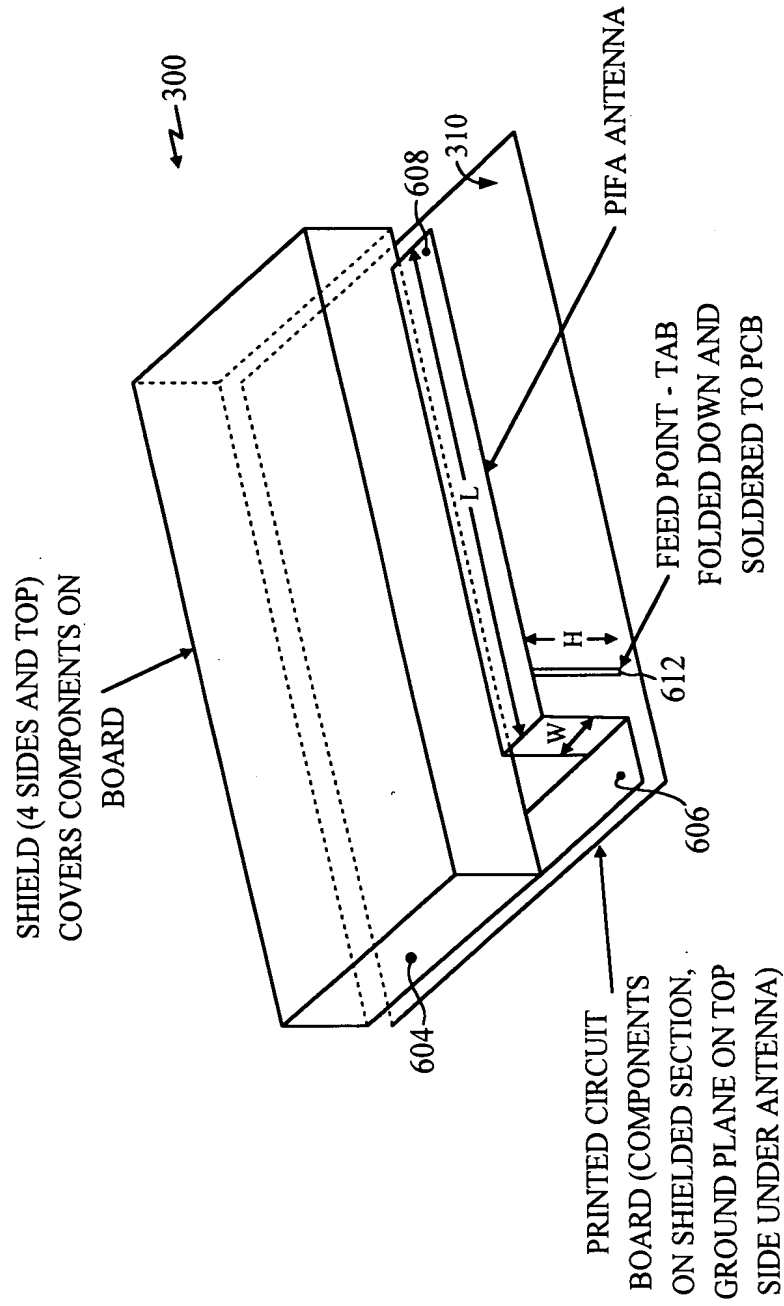
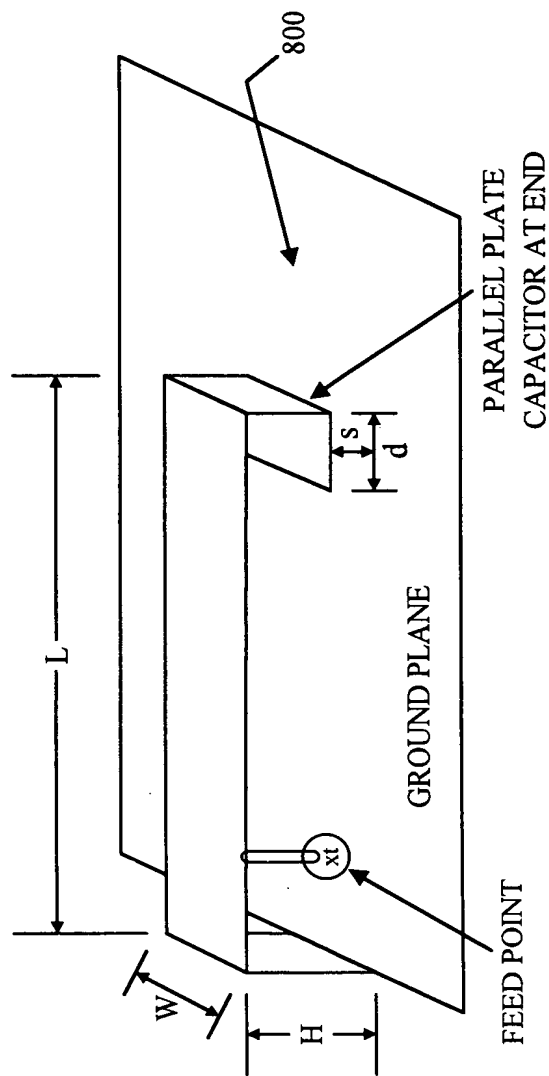


FIG. 6B



HERE, SINCE RADIATING
ELEMENT RADIATES BELOW
PRINTED CIRCUIT BOARD,
PRINTED CIRCUIT BOARD OF
MATERIAL SUFFICIENT TO
ACT AS SHIELDING AND/OR
HAS METAL LAYER

PIFA WITH INTEGRAL CAPACITOR AT OPEN END



FREQUENCY DETERMINED PRIMARILY BY L AND CAPACITANCE
CAPACITANCE DETERMINED BY AREA wxd AND HEIGHT ABOVE GROUND s
BANDWIDTH AND EFFICIENCY INFLUENCED BY L , w , AND H

FIG. 8